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FIG. 1

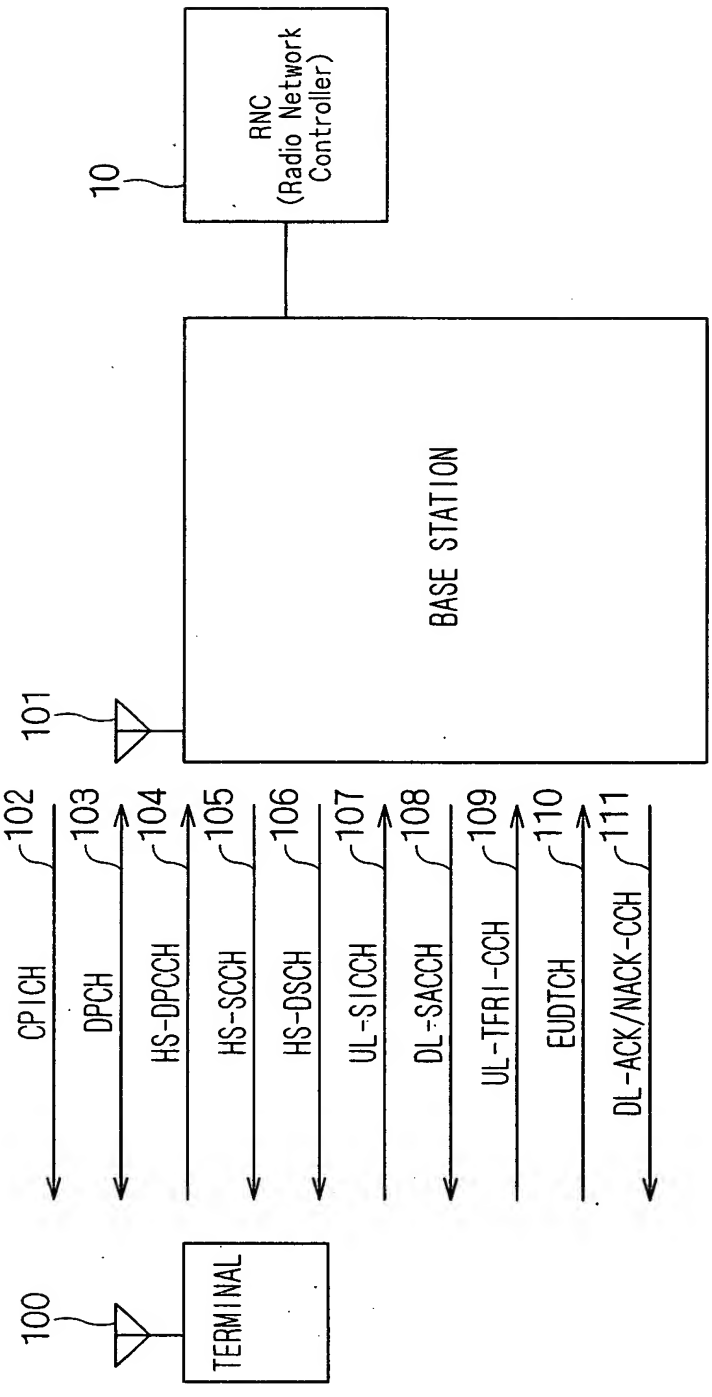
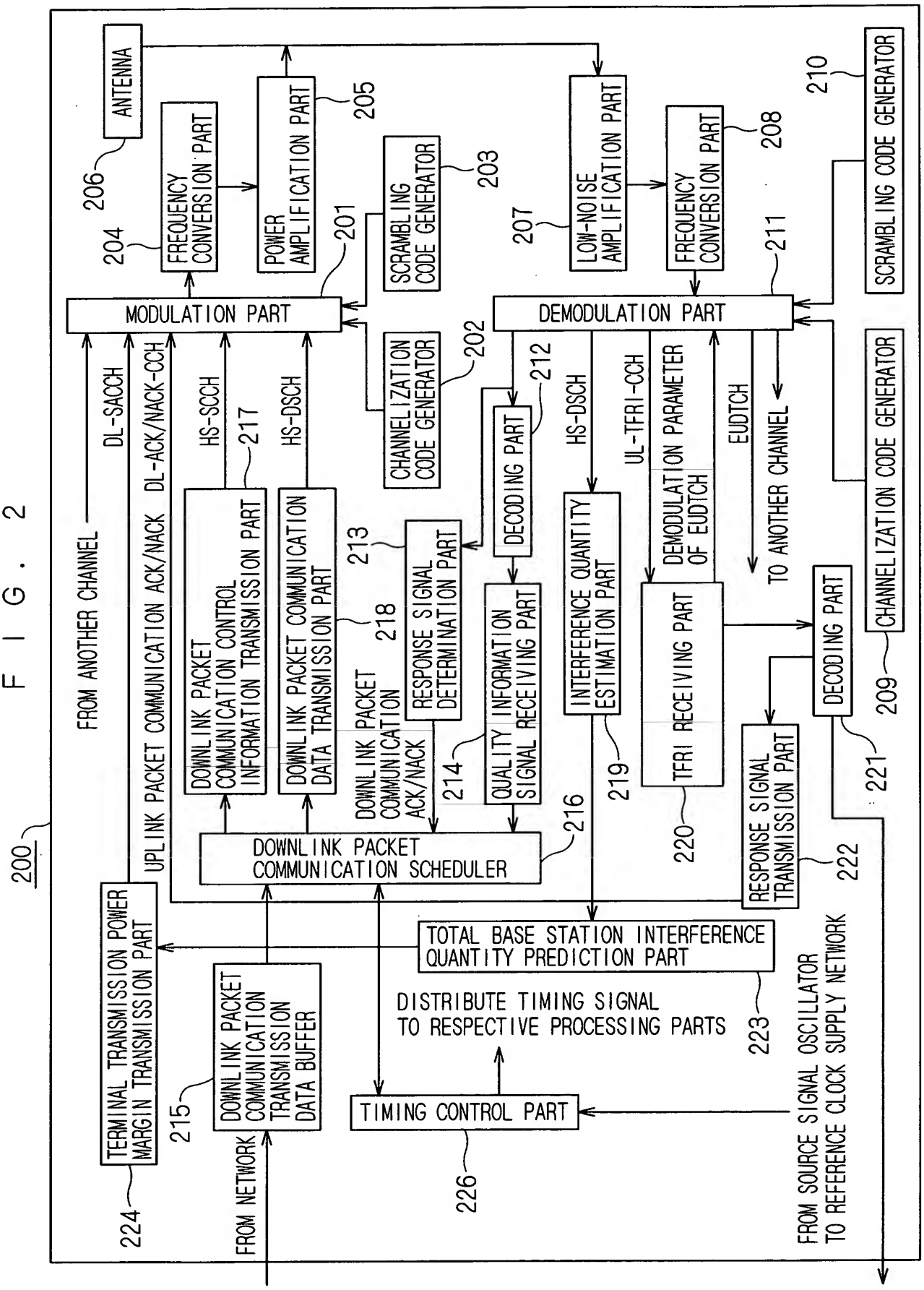


FIG. 2


200
ANTENNA
206
FREQUENCY CONVERSION PART
204
POWER AMPLIFICATION PART
205
SCRAMBLING CODE GENERATOR
203
201
LOW-NOISE AMPLIFICATION PART
207
FREQUENCY CONVERSION PART
208
210
SCRAMBLING CODE GENERATOR
MODULATION PART
DEMODULATION PART
211
CHANNELIZATION CODE GENERATOR
202
DECODING PART
212
CHANNELIZATION CODE GENERATOR
FROM ANOTHER CHANNEL
DL-SACCH
UPLINK PACKET COMMUNICATION ACK/NACK
DL-ACK/NACK-CCH
HS-SCCH
217
HS-DSCH
HS-DSCH
UL-TFRI-CCH
DEMODULATION PARAMETER OF EUDTCH
EUDTCH
TO ANOTHER CHANNEL
DOWNLINK PACKET COMMUNICATION CONTROL INFORMATION TRANSMISSION PART
DOWNLINK PACKET COMMUNICATION DATA TRANSMISSION PART
218
213
RESPONSE SIGNAL DETERMINATION PART
DOWNLINK PACKET COMMUNICATION ACK/NACK
214
QUALITY INFORMATION SIGNAL RECEIVING PART
INTERFERENCE QUANTITY ESTIMATION PART
219
TFRI RECEIVING PART
220
DECODING PART
209
221
RESPONSE SIGNAL TRANSMISSION PART
222
DOWNLINK PACKET COMMUNICATION SCHEDULER
216
TERMINAL TRANSMISSION POWER MARGIN TRANSMISSION PART
224
TOTAL BASE STATION INTERFERENCE QUANTITY PREDICTION PART
223
DOWNLINK PACKET COMMUNICATION TRANSMISSION DATA BUFFER
215
DISTRIBUTE TIMING SIGNAL TO RESPECTIVE PROCESSING PARTS
TIMING CONTROL PART
226
FROM NETWORK
FROM SOURCE SIGNAL OSCILLATOR TO REFERENCE CLOCK SUPPLY NETWORK

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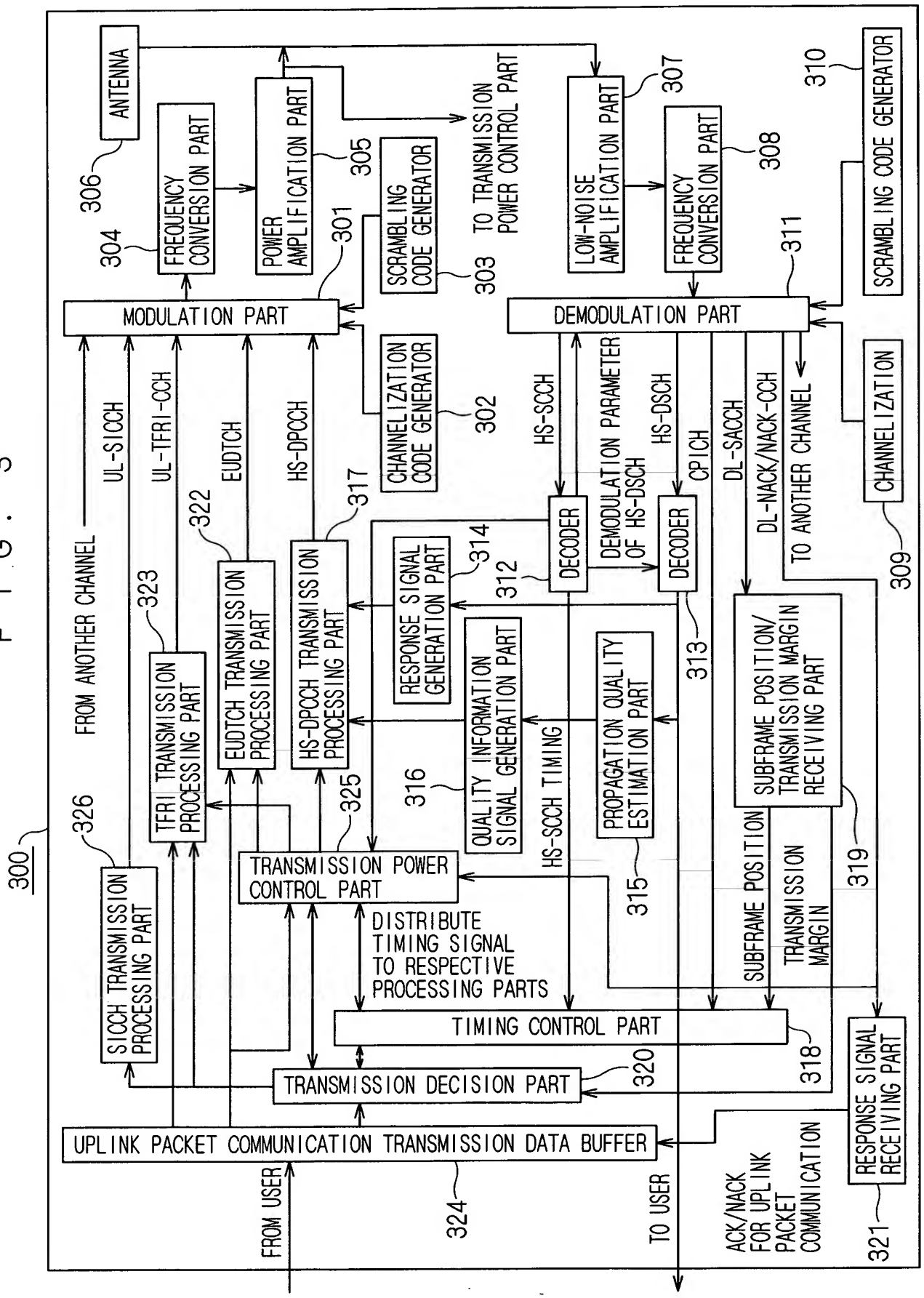

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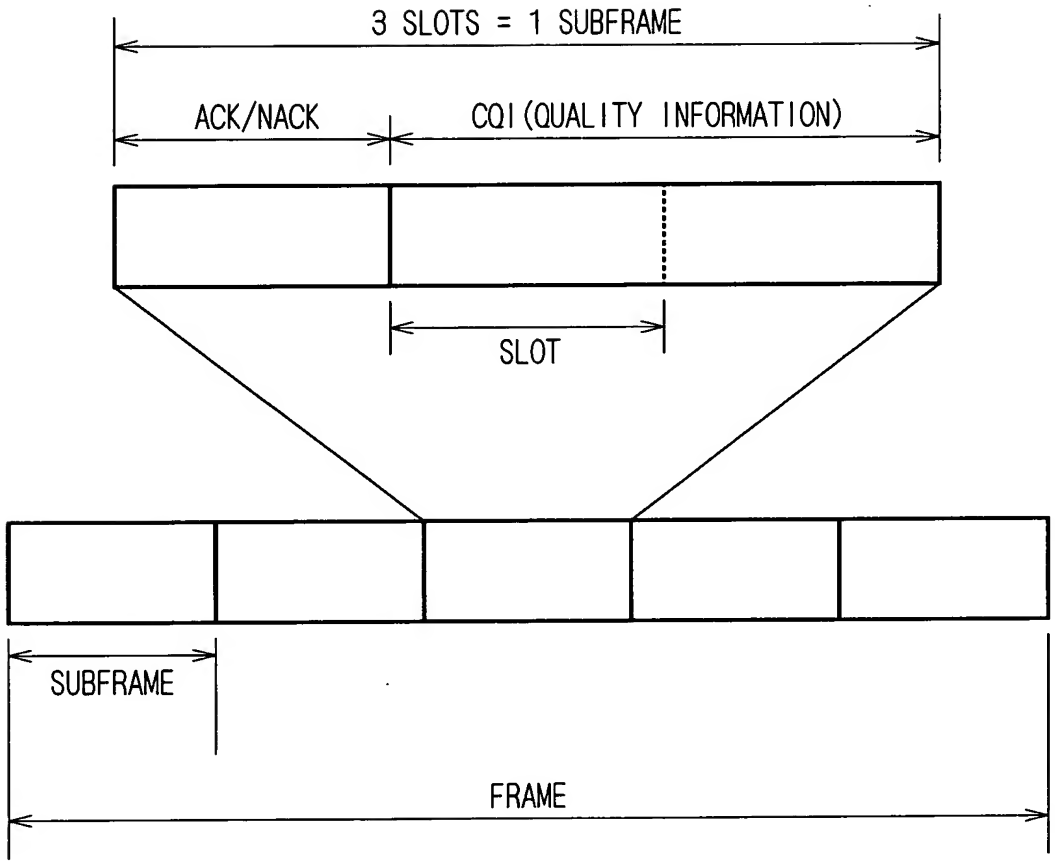
FIG. 4



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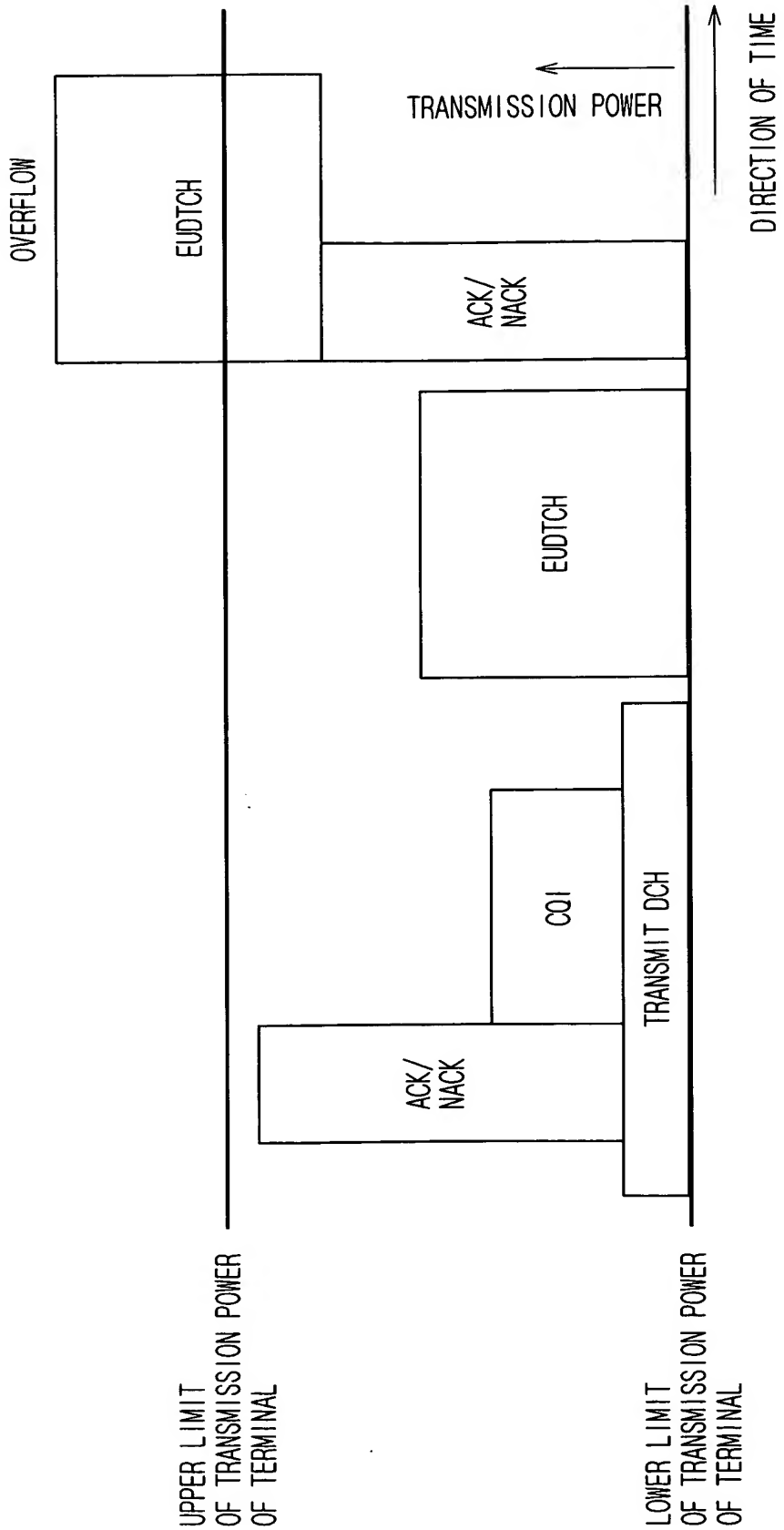

FIG. 5

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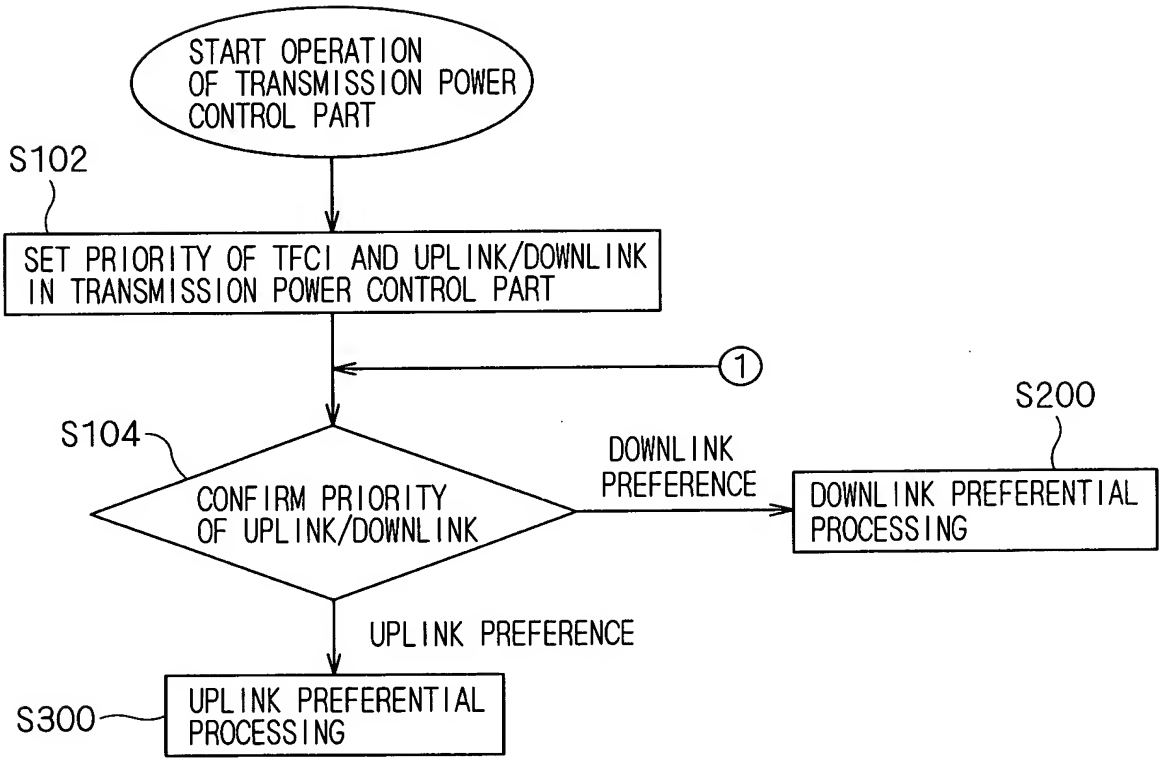
F I G . 6



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F I G . 7

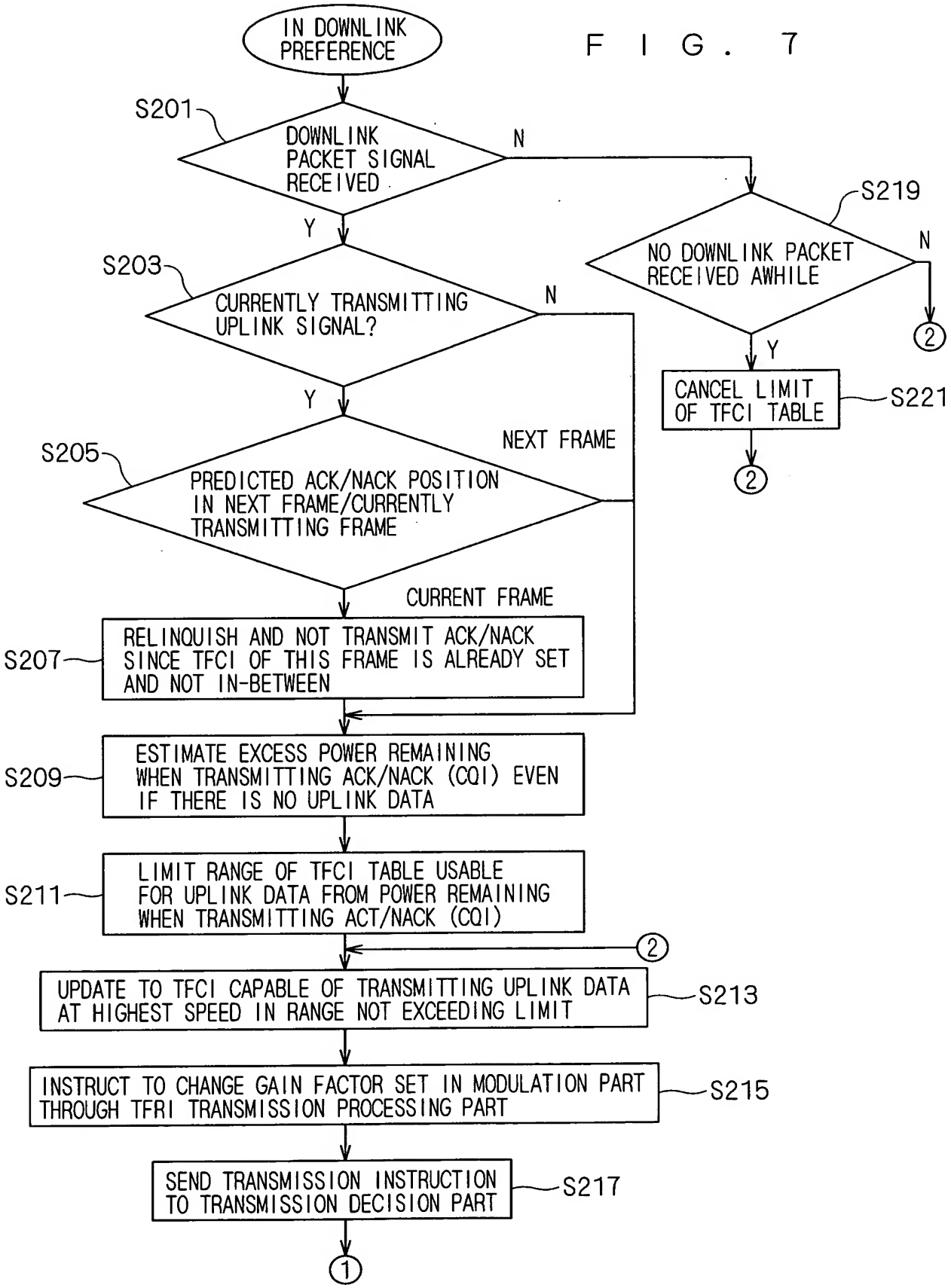

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FIG. 8

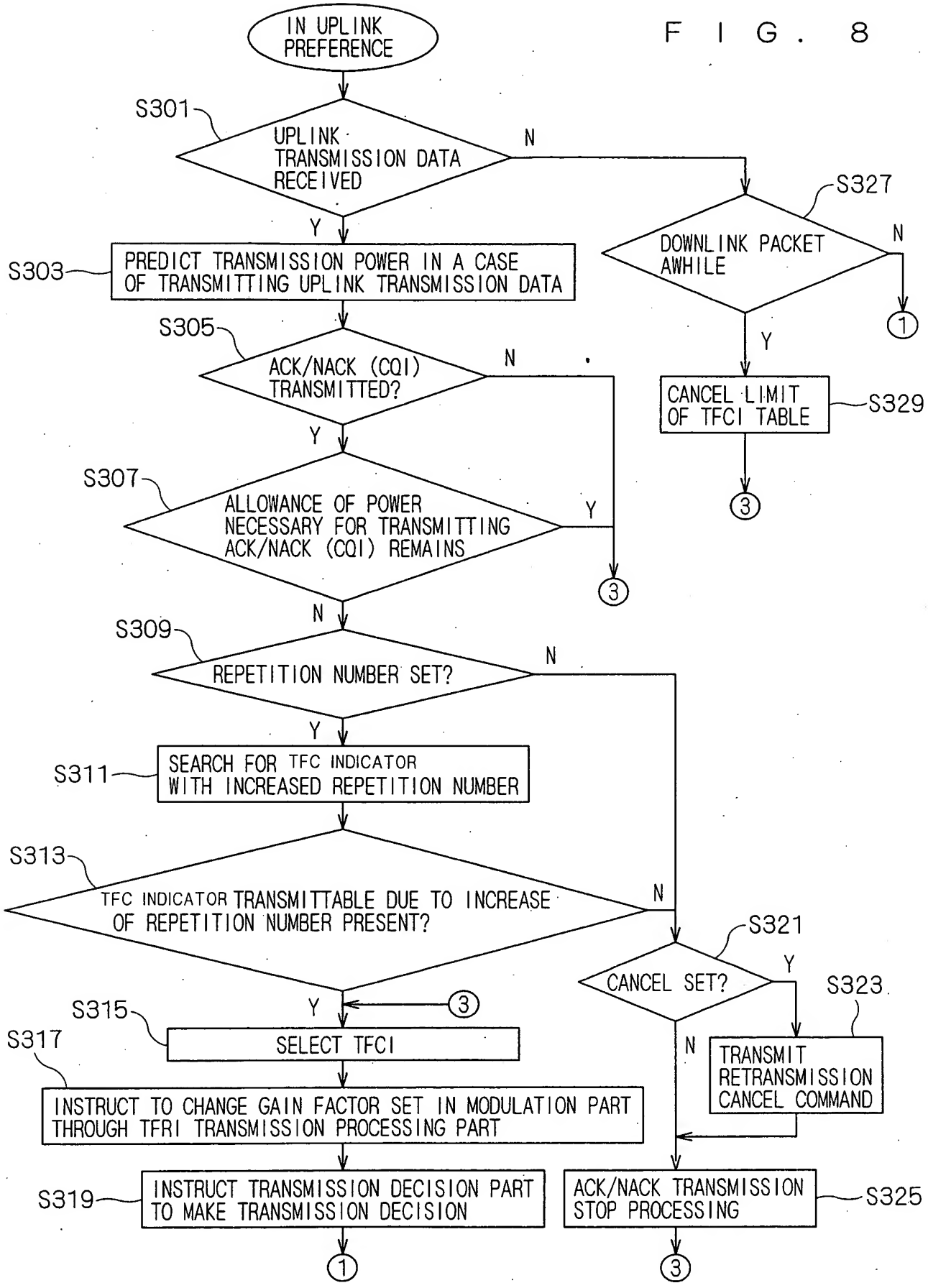

FIG. 9

TFC INDICATOR	EUDTCH	DCCH	
#1	0 BY 336 BITS	0 BY 148 BITS	TRANSMISSION RATE: LOW
#2	0 BY 336 BITS	1 BY 148 BITS	
#3	1 BY 336 BITS	0 BY 148 BITS	
#4	1 BY 336 BITS	1 BY 148 BITS	
#5	2 BY 336 BITS	0 BY 148 BITS	
#6	2 BY 336 BITS	1 BY 148 BITS	TRANSMISSION RATE: HIGH

FIG. 10

CASE. A

TFC INDICATOR	EUDTCH	DCCH	REPETITION NUMBER
#1	1 BY 336 BITS	0 BY 148 BITS	ONCE
#2	1 BY 336 BITS	1 BY 148 BITS	ONCE
#3	2 BY 336 BITS	0 BY 148 BITS	ONCE
#4	2 BY 336 BITS	1 BY 148 BITS	ONCE

CASE. B

TFC INDICATOR	EUDTCH	DCCH	REPETITION NUMBER
#1	1 BY 336 BITS	0 BY 148 BITS	ONCE
#2	1 BY 336 BITS	1 BY 148 BITS	TWICE
#3	2 BY 336 BITS	0 BY 148 BITS	THREE TIMES
#4	2 BY 336 BITS	1 BY 148 BITS	FOUR TIMES

CASE. C

TFC INDICATOR	EUDTCH	DCCH	REPETITION NUMBER
#1	1 BY 336 BITS	0 BY 148 BITS	THREE TIMES
#2	1 BY 336 BITS	1 BY 148 BITS	FOUR TIMES
#3	2 BY 336 BITS	0 BY 148 BITS	TRANSMISSION: OFF
#4	2 BY 336 BITS	1 BY 148 BITS	TRANSMISSION: OFF

CASE. D

TFC INDICATOR	EUDTCH	DCCH	REPETITION NUMBER
#1	1 BY 336 BITS	0 BY 148 BITS	ONCE
#2	1 BY 336 BITS	1 BY 148 BITS	TRANSMISSION: OFF
#3	2 BY 336 BITS	0 BY 148 BITS	TWICE
#4	2 BY 336 BITS	1 BY 148 BITS	TRANSMISSION: OFF

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	PRIORITY: HIGH	PRIORITY: LOW			
TFC INDICATOR	TrCH1	TrCH2	HS-DPCCH	TOTAL TRANSMISSION RATE	
#1	0	0	0	0	TRANSMISSION RATE: LOW
#2	32K	0	0	32K	
#3	0	64K	0	64K	
#4	32K	64K	0	96K	TRANSMISSION RATE: HIGH
#5	0	0	1	HS-DPCCH	TRANSMISSION RATE: LOW
#6	32K	0	1	32K + HS-DPCCH	
#7	0	64K	1	64K + HS-DPCCH	
#8	32K	64K	1	96K + HS-DPCCH	TRANSMISSION RATE: HIGH

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FIG. 12

	PRIORITY:1	PRIORITY:2	PRIORITY:3		
TFC INDICATOR	TrCH1	TrCH2	HS-DPCCH	TOTAL TRANSMISSION RATE	
#0	0	0	0	0	TRANSMISSION RATE: LOW
#1	0	0	1	HS-DPCCH	
#2	32K	0	0	32K	
#3	0	32K	1	32K + HS-DPCCH	
#4	32K	32K	0	64K	
#5	0	64K	0	64K	
#6	0	64K	1	64K + HS-DPCCH	
#7	32K	64K	0	96K	
#8	32K	64K	1	96K + HS-DPCCH	
#9	0	128K	0	128K	
#10	0	128K	1	128K + HS-DPCCH	
#11	32K	128K	0	160K	
#12	32K	128K	1	160K + HS-DPCCH	TRANSMISSION RATE: HIGH

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	PRIORITY:1	PRIORITY:2	PRIORITY:3		
TFC INDICATOR	HS-DPCCH	TrCH2	TrCH1	TOTAL TRANSMISSION RATE	
#0	0	0	0	0	TRANSMISSION RATE: LOW
#1	1	0	0	HS-DPCCH	
#2	0	0	32K	32K	
#3	1	32K	0	32K + HS-DPCCH	
#4	0	32K	32K	64K	
#5	0	64K	0	64K	
#6	1	64K	0	64K + HS-DPCCH	
#7	0	64K	32K	96K	
#8	1	64K	32K	96K + HS-DPCCH	
#9	0	128K	0	128K	
#10	1	128K	0	128K + HS-DPCCH	
#11	0	128K	32K	160K	
#12	1	128K	32K	160K + HS-DPCCH	TRANSMISSION RATE: HIGH

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